

**IN THE TITLE**

Please amend the title as follows:

~~SYSTEM AND METHOD FOR~~ MANAGING TRANSACTIONS IN A MESSAGING  
SYSTEM

### **IN THE SPECIFICATION**

Please amend the specification as follows:

**The paragraph beginning at page 36, line 14 is amended as follows:**

Figure 13 is a flow chart of a method followed by the transaction service during the processing of a message as described in figure 11. At step 1301 a request is received to begin a transaction, such as the request 15 made at step 1102 of figure 11. However, note that this step is not completed if a transaction is found to be active at step 1101 of figure 11. At step 1302 a request to register a receiver as a temporary participant in the transaction, such as the request made at step 1103 of figure 11, is received. As part of this registration request the transaction is passed details of its superior/parent transaction. The registration request also informs the transaction not to complete until an unregister request is made for the same temporary participant and as a result at step 1303 the transaction service starts a timer and waits for the unregistration request. The timer defines how long the transaction is willing to wait for the received message to be processed. During this time the transaction service may receive requests from other non-message queue participants, such as databases which are changed as a result of the message processing. When the unregistration is received or the timer expires at step 1304 a check is made to see if it was the timer that expired. If the timer did expire the transaction is either marked rollback only or rolled back and completed at step 1305. As a result any subsequent attempts to register as a participant will be rejected and if the transaction is rolled back any participants already registered with the transaction are rolled back. If the timer was not found to have expired at step 1304, an unregister request must have been received, such as made at step 1105 of figure 11. This being the case the timer is stopped at step 1306 and the vote returned with the unregister request is checked at step 1307 ~~1306~~. If the vote was rollback, processing continues at step 1305 as discussed above. If, however, the vote was commit, at step 1308 a timer is started which defines the maximum amount of time the transaction is willing to wait for another message. If the timer expires the transaction will be rolled back. Finally at step 1309 the temporary

participant is marked as unregistered and if there is a thread waiting for this event, as may the case at step 1404 of figure 14, the thread is notified.